

**Abstract :**

The invention relates to a new use of a non-alkaloid compound that is plant derived glycoside 'glycyrrhizin' as a highly potent bio-enhancer of activity and availability of antibiotics and other drugs including anti-infective and anticancer agents. The molecule of invention facilitates the absorption/uptake of antibiotics and other molecules across the cell membrane in plant and animal cells as well as Gram-positive and Gram-negative bacteria and therefore can be used as a drug facilitator or bioenhancer molecule to increase the affectivity of drugs and nutraceutical agents. The compound having no antimicrobial or cytotoxic activity of its own, is a safe candidate to reduce the drug dosage towards circumventing the problem of drug resistance and the other side effects in anti-infective and anti-cancer therapies.

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